

FOLIO

UNIVERSITY OF ALBERTA
25 JUNE 1993



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Hybrid Electric Vehicle Challenge enormous success for students, Faculty of Engineering and U of A

Student team shares top honours with Cornell's finest

The University of Alberta and Cornell University shared the top two prizes in the recent Hybrid Electric Vehicle Challenge, co-sponsored by Ford Motor Company.

The U of A entry was the top overall score winner in the Escort-conversion class and Cornell was the winner of top overall score in the ground-up class.

The HEV challenge enlisted engineering students from 30 universities in the United States and Canada to develop a hybrid electric vehicle—one that runs primarily on electricity, with an auxiliary internal combustion engine—either by converting a Ford Escort station wagon or by building a vehicle from the ground up.

U of A team members—who were from a variety of Faculties on campus and who worked for almost two years on the project—were ecstatic, as were Ford executives.

"I'm very impressed with the vehicles these student engineering teams developed," said John McTague, Ford Vice-President, Technical Affairs. "We challenged the students to think ahead to the future of automotive engineering, and they met and exceeded the challenge."

The U of A team put together an interdisciplinary team of engineering students and a smattering of students from the Faculties of Business, Home Economics and Arts. The team successfully sought out sponsors to back their bid. Then, the team purchased specially designed batteries from a European company, installed a combustion engine and set out to put the whole thing together in the form of a functional and efficient HEV vehicle.

Team member Kevin Gans, an electrical engineering student who graduated earlier this month, said one of the most important strengths of the team was its organization. "[Key organizer] Vince Duckworth took care of all the logistics, so the other team members could concentrate on what they were supposed to do."

Gans says that when the U of A team arrived in Dearborn, Michigan, site of the competition, it found that some of the other teams had left some tasks to the last minute.

Duckworth attributed the first-place win to "a little bit of luck, good organization and a darn good car. We cleaned up in the performance categories."

The judges thought the U of A team was organized as well. In the conversion class, the team took first overall spot, followed by Weber State University, Concordia University (the only other Canadian entry in the competition), Seattle University and University of Illinois.

There were a number of sub-categories on which the competition was judged. The U of A entry was judged first in the range event, acceleration, commuter challenge, best performance vehicle, design innovation and creativity, best ergonomics and team spirit and sportsmanship. Duckworth felt that the ergonomics award would not have been won were it not for the outstanding work turned in by fine arts student James Paras. The U of A's entry also placed second in oral presentation, engineering design and best use of materials. It captured third spot in the cost assessment category.

The HEV Project team's major sponsors included Alberta Transportation, Alberta Power, Edmonton Power, Energy, Mines and Resources, Ford Motor Company, Suzuki Canada, TransAlta Utilities and the University. The team also had a host of associate sponsors.

As the 1 June competition date approached, students here at the University worked to complete last-minute tasks. Once they were done, the car was driven to Dearborn.

After the competition, the team toured the country. One of its first post-competition stops was Oshawa, where team members lunched



Students at the University of Alberta worked hard to capture first place in the Hybrid Electric Vehicle Challenge. Here, the team poses for a picture outside Ford Motor Company's design centre.

with the president of Ford Motor Company (Canada). The team, which was awarded \$14,500 in prize money, will be back in Edmonton 1 July to thank its local sponsors.

"This is indeed a triumph for the determined and resourceful students in Engineering, Arts, and Business who worked together to design and build the hybrid electric vehicle," President Paul Davenport enthused. "They won the top prize in an international competition involving some of the finest universities in the U.S. Their achievement makes all of us at the U of A very proud. Great credit is also due to the many faculty colleagues who helped them with this project."

"This type of multidisciplinary project demonstrates the world-leading accomplish-

ments and potential of the University of Alberta," said Senate member Graham Cheeseman, who extended his congratulations to the team.

Advanced Education and Career Development Minister Jack Ady said the HEV project is a "tremendous example of what cooperation, ingenuity and creativity can achieve. Having followed the project closely over the past few months, I know how hard the individuals involved have worked towards this goal."

President of Alberta Power Ltd, Craighton Twa, said the achievements of the HEV team members will bring long-term benefits to themselves, the University and the Province.

U of A Pharmacy students tops in the country's exams

Individually, Frances Cusano earns highest standing

Pharmacy Examining Board of Canada examinations, written earlier this month.

She was awarded the George A Burbidge Award, presented annually by the Canadian Pharmaceutical Association. This is the fourth consecutive year that an Alberta graduate has either shared or won the prestigious award.

And if that wasn't enough, Cusano also earned the Alberta Pharmaceutical Association Gold Medal, awarded to the most outstanding student in the graduating class. She had a near-perfect GPA of 8.9 in each of her years in Pharmacy.

Cusano, who is doing a one-year residency at the Alberta Children's Hospital in Calgary, attributed her success to hard work and a supportive environment. "There was a group of about five of us who studied together."

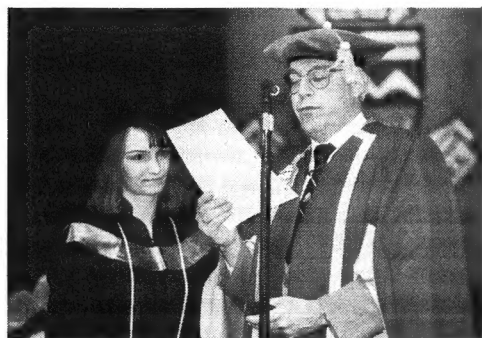
Cusano completed the Southern Alberta Institute of Technology nuclear medicine technology program and then went to work for a few years. One of her patients was a pharmacist who loved the work. Her sister is a pharmacist and her roommate at the time was a pharmacist. Not surprisingly, Cusano took a year of required science courses at the University of Calgary, and then enrolled at the U of A.

"It was an excellent program," she says, adding that the faculty members were very supportive of the students.

Cusano had to make some personal sacrifices, however. Her husband, Ron, was enrolled in the U of C's medical program while she was studying in Edmonton. That meant she had to commute to Calgary on the weekends. It was tough, the 29-year-old admits, but it was worth it.

Cusano's classmates this year also worked hard, earning the highest overall average standing in Canada in the PEBC examinations. The U of A's pharmacy graduating class has earned this honour for five consecutive years.

Connie Postema, the recipient of the Horner Silver Medal, had a similarly impressive academic record. Tom Curr earned the Smith Kline Beecham Pharma Inc Leadership Award. He was extremely active in student affairs, yet remained in the top 10 percent of his class throughout the program. And the Apotex Inc/PACE "Future Leader" Award went to Lori Swick, who was student president. The recipients of the latter two awards were chosen by their peers.



Frances Cusano, shown with President Paul Davenport at Spring Convocation, earned the Alberta Pharmaceutical Association Gold Medal as the most outstanding graduate of the Class of '93.

Members of the Class of '93 will tell you it's been a great year for the Faculty of Pharmacy and Pharmaceutical Sciences.

Frances Cusano, who convoked this spring, earned the highest standing of all pharmacy students in Canada on the 1993

GFC again debates merits of Strategic Planning Task Force recommendations

University has received many more responses to SPTF's Degrees of Freedom

General Faculties Council members got another opportunity to express their views before revisions are made this summer to the Strategic Planning Task Force's plan titled *Degrees of Freedom*.

Outlining some of the themes contained in the more than 50 submissions the SPTF has received on the plan since it was released, President Paul Davenport said a number of letter writers have expressed concerns about the University's graduate studies.

"There's a feeling that in the supplement we show clearly that we intend to treat graduate studies as a priority and expand student numbers, but that that priority should be more clearly described in the main report," he said. Other letter writers have expressed their concerns about the Library and other research infrastructure, the President explained.

"There have been a number of comments with regard to the overall size of the University. Here, members of our community are coming down on both sides of the question. Several submissions support the position taken by the task force that we can indeed expand our numbers if the resources grow in step. But there are others who feel that quite apart from the resources we should not expand. If expansion is needed in the system, it should occur elsewhere in the system."

GFC member Jeffrey Osborn (Oral Biology) said, "If we double the number of students, we get a reduced standard. The point is we're taking the top students already at the University. If you introduce another 50 percent, inevitably the standards drop."

President Davenport said a number of letter writers have reservations about tuition fees, about turning over authority for tuition fees to the boards of the institutions. Other concerns that have been noted are: giving more emphasis to the international areas of the report; that the University not misuse teaching evaluations; that the University's plan fit with the city's and province's strategic planning; and, the whole process of evaluation of excellence and selectivity in research and graduate studies.

Addressing the report's recommendations dealing with the assessment and future of graduate programs, Dr Osborn said this struck him as being ominous. "We have some strong research workers in weak programs, and weak research workers in strong programs. This is inevitable in any university. All departments go through cyclical ups and downs. Suppose we remove support from a department in a down phase; it can no longer have a graduate program."

"The first thing that happens is the best people will leave. No decent scholar would want to join such a department, which is now effectively dead. I hope that those who decide to kill a department during a down phase recognize that the result of their actions will probably be irreversible."

And he wondered whether it was a scholar's right to be able to supervise PhD students. "To deny the rights to supervise a PhD student could very seriously damage—even destroy—an academic career of a university professor."

Vice-President (Research) Martha Piper said, "The task force was interested in looking at how we might be able to reorganize graduate education so that we could optimize our strengths in concert with other universities and other programs across the province and country."

"I don't think it was the intent that even if there were not a graduate program within a specific area or department it precluded the possibility of having graduate students in

other areas or universities that would be supervised by colleagues and scholars here. For example, you might have an area that a sister university has deemed their area of specialty at the graduate level, but we would have joint appointments with that university. Then our people in that area would be supervising in conjunction with those colleagues at another university."

Dean of Science Dick Peter said, "The difficulty with this section [of the report] is that you're trying to deal with vertical cuts, but with this particular recommendation you're only doing vertical cuts of a certain part—perhaps the head of the organism."

"If it's judged an academic unit that has a centrality in terms of the teaching program, I think we have no option but to try to improve the graduate programs of that unit, not to try and cut them off. If the unit's graduate program is judged to be weak and is not involved in the academic centrality in terms of the teaching, then it's an object of vertical cuts—and I think you should say that in the report."

Graduate student Steve Karp said the Strategic Planning Task Force is bang-on when it says that things have to be re-examined. "We have to look at how we're using our resources to support various graduate programs across the University."

University takes out membership in CANARIE

The University of Alberta has become an institutional member of CANARIE (Canadian Network for the Advancement of Research, Industry and Education).

This means the University votes on policy issues and lends its support to the upgrading of telecommunications for research and other educational purposes across Canada, explains Bob Busch, Associate Vice-President (Research).

CANARIE's mission is "To support the development of the communications infrastructure for a knowledge-based Canada, and thereby contribute to Canadian competitiveness in all sectors of the economy; to prosperity, job creation, and to our quality of life."

For the past four years, more than 200 people from 56 organizations representing Canada's research, university, business and government communities have developed the concept and business plan for CANARIE. The CANARIE initiative will be implemented in three phases between now and March 2000.

CORRECTION

In its special issue on Spring Convocation (4 June, honorary degree recipients), *Folio* inadvertently placed Edgar Jones's name under James Shaw, Sr's photo, and vice versa. *Folio* apologizes to both individuals for the error and for any embarrassment it may have caused them.

Opening Doors tabled until the fall

Many Board members want more time to examine the employment equity plan

After a long and thorough debate, the Board of Governors voted 10-4 at their last meeting to table the plan, *Opening Doors: A Plan for Employment Equity at the University of Alberta*, until the fall.

Board member Reg MacDonald said the principle of merit will be affected by some of the plan's recommendations. On process, MacDonald said, "I haven't had an opportunity to discuss this with my Board colleagues in camera. I suggest we table this so we can have a proper debate and analyze the report."

A number of others on the Board want more time to examine the implications of some of the plan's recommendations. Ed Makarenko said, "In general, I'm in favour of the plan." But, acknowledging the existence of a 300-name student petition against the implementation of the plan, Makarenko questioned whether students had been given adequate opportunity to comment on the plan.

Another member of the Board, Tom Shields, said, "I won't be able to support [the plan] in its present form. I support 99 percent of the report, but I worry when we have to pass legislation to effect change. I'm not sure that's an effective way of doing it," he said at the most well-attended Board meeting in several years. He added that the evidence presented in the plan suggests the University is moving very quickly on matters of equity.

The plan, approved in March by General Faculties Council by a 62-14 vote, contains a number of recommendations to eliminate artificial barriers to employment. It commits the University to pursue employment equity and to become a more equitable employer by revising some of its employment policies and practices which have an adverse impact on members of four designated groups: women,

aboriginal people, members of visible minorities and disabled people.

Addressing the concern of several Board members who worried about compromising the principle of hiring on merit, Vice-President (Research) Martha Piper said the plan would enhance the University's ability to hire on the basis of merit. There's a distinction between increasing the pool of applicants and preferential hiring, she said. And, she added, the University will be in stiff competition with governments, industry and other universities for hiring and retaining good staff.

President Paul Davenport said the report clearly rejects the use of preferential hiring or quotas, but at the same time encourages more applications from the underrepresented groups.

The report really embodies good human resources management, said Vice-President (Student and Academic Services) Lois Stanford.

Senate representative on the Board, Mary O'Neill, said *Opening Doors* is a plan that would allow the University to open doors that have up until now been closed to some people. The plan is a made in Alberta document, tailored for the University's particular circumstances, and basically says that the U of A is a welcoming and inclusive place to work.

Former Board member Mary Lobay, who was the Board's representative on the President's Employment Equity Implementation Committee charged with putting the report together, spoke passionately in favour of accepting the report. "I love this University and I want it to be considered fair by all. The process has taken two years of thoughtful consideration. You can't just throw a document like this out the door."

"There will be court cases," said Lobay, pointing out that in that event the University would have something in place to demonstrate it is doing its level best on equity matters. The report brings the University into line with current legal standards, added Office of Human Rights Director Fran Trehearne.

Political science student Patrick Donnelly, an organizer of the student petition against the plan, was particularly critical of the report's inclusion of numerical targets. "Most people I talked to saw these numerical targets as quotas," he said. If the report was a general work plan, then it could simply get rid of the numerical targets. When race and gender are introduced into the hiring procedure, there's a possibility they will clash with the principle of merit, he argued.

Tom Powrie (Economics), academic staff representative on the Board, was also concerned about the inclusion of targets in the report.

The targets don't say anything about the underrepresentation of men in certain jobs, he said. Dr Powrie, questioning the validity of the data contained in the report, suggested the targets should be reworked in a non-discriminatory way to include everyone regardless of race or sex. He also wondered what would happen if the targets were not met.

There are simply too many unanswered questions about the report, said Alumni representative MacDonald, and the Board has an obligation to take the public's views into consideration.

We need this document, but I have a strong sense that we're not ready to pass this today, said Board member Penny Reeves.

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OFFICE OF PUBLIC AFFAIRS,
423 ATHABASCA HALL
UNIVERSITY OF ALBERTA, EDMONTON,
ALBERTA T6G 2E8
TEL: (403) 492-2325 FAX - 492-2997
PROFS - ZZOPA

All enquiries and correspondence should be directed to:
RON THOMAS: EDITOR
MICHAEL ROBB: ASSISTANT EDITOR

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GFC BRIEFS

Notice of motion given related to Michener Park

Library and Information Studies Director Sheila Bertram gave notice of motion at the 16 June meeting of General Faculties Council that, "Michener Park remain a University owned and managed facility, and urge that efforts to privatize Michener Park and other residences be halted."

"It is my understanding from the GFC Policy Manual that this motion will now be forwarded to the GFC Executive Committee to decide whether it is appropriate that such a motion be placed on the agenda of the next GFC meeting," Dr Bertram said.

A Board of Governors subcommittee is currently investigating possible options for dealing with Michener Park's capital needs and future funding requirements.

Dean gets a new name

Although GFC turned down a motion to change the name of the Dean of Student Services to the Dean of Students and Student Services, it did endorse a motion to change the name simply to Dean of Students. The University is seeking applications for the position, which is open on a secondment basis to all continuing members of faculty.

Faculty Agreement endorsed

GFC endorsed the recently revised and amended Faculty Agreement, also ratified by the Association of Academic Staff and the Board of Governors.

President Paul Davenport said the clause dealing with the dismissal of academic staff for unacceptable academic performance is fairly unusual in Canada. "That clause allows for the dismissal of a tenured staff member under conditions of due process if the performance is found to be unsatisfactory—0-d as we say in two out of three years.

"It shows that at the University of Alberta tenure means protection of academic freedom; it does not mean that you cannot perform. I think we should be very proud of that and very proud of our faculty association. This clause would not be in there without their agreement.

"It specifically had to be renewed this time and you'll see in Article 14:19 that it's renewed for another five years. We've had 45 cases of a first 0-d and 28 of those people are no longer at the University, so the clause has been used."

The President said there are many other improvements in the Agreement. "I'd like to congratulate both parties for doing a very fine job."

CORRECTION

In its coverage of the Non-Academic Staff Association's Annual General Meeting (4 June, page 7), *Folio* stated that, effective immediately, the dues structure motion approved at the meeting was in effect. This is incorrect. A mail ballot is the process needed to change the dues and must be passed by a two-thirds majority of those casting ballots.

The article also stated that NASA Bylaws Chair Marion Broverman said she didn't care what was put into the NASA ads that appeared in the local print media. In fact, Broverman said that she didn't care what tone the ads used to make the public aware of what was happening at the University.

Folio regrets the errors and apologizes to NASA and to Broverman.

William Bridger new Associate Vice-President (Research)

Wraps up chairmanship of Biochemistry Department at end of July

William Bridger doesn't have a lot of time for people who say, "You can't do that in Edmonton." The Chair of the Department of Biochemistry says, "One of the things I know is that you can build a world-class department here."

In fact, building on his predecessors' hard work, Dr Bridger has been a key player in the development of a department that many say is tops in Canada and comparable to many of the best in the world.

Dr Bridger, who has been appointed Associate Vice-President (Research), effective 1 August until 31 December 1997, was just beginning a second term as Chair when he accepted the appointment.

The successor to Bob Busch (Slavic and East European Studies), he will now put those skills to work with Vice-President (Research) Martha Piper, the former Dean of the Faculty of Rehabilitation Medicine who took on her new job in January.

Dr Bridger, who has been in the Biochemistry Department for 25 years, says much of his time at this University has been spent in that departmental world. "I love this department—it's family, it's home. On the other hand, I think very dearly of the University.

"But for many years I've wondered aloud why the University seems to be unable or unwilling to make hard decisions about reallocation—long before that became a catchword around here. I'm very pleased to see that there are now people in the central administration who have that philosophy.



Incoming Associate Vice-President (Research) William Bridger

"Six years ago, I had a lot I wanted to do. We recruited 15 new people, essentially all younger faculty and for most of them it's their first appointment. Graduate student enrollment has gone from less than 30 students to about 65. Those are the two big things [bringing in bright young faculty members and building the graduate program] that I wanted to accomplish."

More recently, while serving on a graduate scholarship committee, Dr Bridger says he developed a taste for the breadth of research and scholarship that goes on at this University—everything from black holes to people performing in drama. "This is thrilling," he says, adding that he was for many years somewhat isolated in a research, basic-science department.

"At the same time, I think this is a spotty university, with pockets of pessimism. Some people are resigned to being less than excellent. They either have to be made optimistic and to want to grow, or else resources will have to be reallocated," he says bluntly.

"These are the sorts of opinions that I've said loud and clear to people over there [at University Hall] when they approached me, so they know what they're getting. This is where I'm coming from," he says, adding that he's most impressed with Dr Piper's capabilities.

The job description for the Associate Vice-President (Research) has been rewritten. It includes, in association with the Vice-President, the development of a five-year plan for the Office; identification of areas of research excellence; establishment of criteria of research performance; evaluation of graduate programs in cooperation with the Faculty of Graduate Studies and Research; development of a strategy to increase research funding as a result of Bill C-91; development of a strategy to promote provincial and national science and technology policy; promotion of the research mission of the U of A; and, review of the Research Grants Office and Intellectual Properties Office and development of strategies to enhance their effectiveness.

Dr Bridger will also serve as Dean of the five interdisciplinary research units, review requests for research support and make recommendations and review current research coordinators and make recommendations for reorganization of their positions.

He's read the recent Strategic Planning Task Force draft report and believes it's a good document with some sound recommendations. For example, the review of graduate programs is long overdue at this University, he says, and the document's emphasis on selective budgeting makes sense.

Campus Security Services adds element of flexibility

'F' Section complements other units

Campus Security Services' new 'F' Section is, like Muhammad Ali in his prime, floating like a butterfly and stinging like a bee.

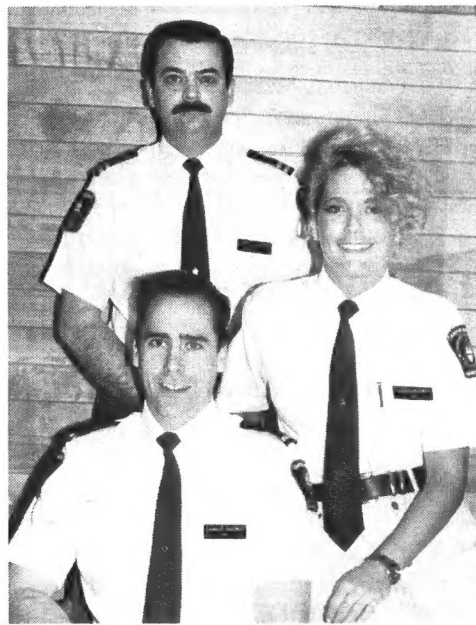
Since its inception in early May, the 'F' Section team of Randy Stallknecht, Karen Gordon and Greg Turner has arrested two adult males (neither one of whom has any affiliation with the University) on charges of theft and possession of more than \$1,000. "Our information is that they were responsible for 12 or 13 break-ins on campus," Stallknecht says. 'F' Section also apprehended two males and charged them with attempted theft of bicycles and caught another male in response to a complaint of someone masturbating in the Fine Arts Building.

No break-ins or bike thefts have been reported since the arrests, Stallknecht told *Folio* last week.

Although the letter F is simply a continuation of the A, B, C, etc, units that form Campus Security Services' organizational structure, it could easily stand for flexibility. With one person on foot, another on a bike and the third in a car, 'F' Section patrols the campus's streets, walkways, and corridors, and its busy and not so busy areas, getting together whenever one member of the team sees something that looks suspicious. (Campus Security Services as a whole patrols campus 24 hours a day, seven days a week.)

Doug Langevin, Director of Campus Security Services, and Stallknecht say they're unaware of any other university in Canada adopting such an approach in the interests of a safe campus.

"Essentially, wherever Patrol is having a problem, we can step in and formulate a plan and report to the Director," says Stallknecht. "It's a much better service than responding an hour later and filling out a complaint form.



Randy Stallknecht, top, Karen Gordon and Greg Turner comprise Campus Security Services' 'F' Section. It's expected that a fourth person will join the team soon. The section will rotate staff every six months.

"We want to go in [to an area that may be tempting to wrongdoers], blend and mix and not look anything like Campus Security."

"Security is everyone's business" and part of 'F' Section's job is to get that message out, says Langevin.

'F' Section began by identifying problem areas, drafting plans of action and submitting them to Langevin for his consideration. "Randy's an ideas man who's been with Campus Security Services all his working life [about 16 years]," says Langevin.

The four top priorities were deemed to be bike thefts, theft of texts, calculators, wallets and purses from libraries, flashers and break-

ins. We haven't yet set up in the libraries but we've made good progress in the other three areas, Stallknecht says. 'F' Section will identify areas of high risk to staff and students and linger in various libraries in an attempt to apprehend thieves.

Gordon distributed a letter to all HUB Mall merchants (commercial and University) advising them of recent break-ins and theft, and followed up with personal visits to each merchant.

Turner is correlating all recent break-ins, and his report will be taken to the Edmonton Police Service for discussion. 'F' Section is also developing a plan which would allow it to determine the probability of future break-ins.

Panhandling complaints are being monitored and periodic checks of the LRT Station, HUB and the Fine Arts Building are being conducted.

In many of the break-ins and thefts from offices on campus, both University property and personal property (cash, purses, wallets, clothing) were targets.

"In order to reduce the risk," advises Lois Stanford, Vice-President (Student and Academic Services), who is responsible for Campus Security Services, "please do ensure that all doors are locked when the office is empty and that valuables are locked safely in a drawer or cabinet at all times. As it only takes a thief a moment to enter, steal and escape, valuables should not be left unattended for any length of time.

"Do not keep large amounts of cash in offices after working hours; you might consider making nightly deposits. Also, please do not rely on the security of an office safe; on one occasion thieves took the safe and contents. As most break-ins have been at night or on weekends, it is advisable not to leave any valuables in your office during these times."

NASA protests Printing Services decision

Non-Academic Staff Association members rallied in front of University Hall 7 June, to protest what they say is unnecessary privatization of the University's Printing Services Department.

But University officials say they're doing everything they can to get the best possible service for the University, and that contracting out services has always been part of the University's approach to providing services.

"The University has always contracted externally for many of its services," says Glenn Harris, Vice President (Finance and Administration). "From time to time, changes are made in these arrangements, and additional work is contracted out or brought back in to be performed by University staff."

Vice-President (Student and Academic Affairs) Lois Stanford said, "The University is always looking for ways to provide the best service to the University, and to support the University's primary academic mission."

Dr Stanford said printing vendors are being asked to consider how they might be able to address the question of Printing Services staff. "In addition, we will be looking for positions within the University [for laid-off

employees], as we do in the case of all lay-offs."

NASA President Anita Moore said the process upon which the decision to privatize Printing Services was made has not been open. "Various departments on campus are concerned they'll be next."

Harris said, "It is true that, at this time, we are examining alternative arrangements that could affect Housing and Food Services. This does not constitute a 'commitment to privatization', only a commitment to the examination of options in areas where concerns exist about the financial viability of current or future operations."

"Such studies obviously create anxiety for those people whose jobs may be affected, and this cannot be avoided. We recognize our obligation to be objective and thorough as well as to make decisions expeditiously. We will continue to do everything possible to keep NASA, indeed all involved parties, properly informed, and to weigh both the financial and human consequences of any change that might be contemplated."



AMC HOLDS OPENS HOUSE

The Alberta Microelectronic Centre held a formal signing ceremony earlier this month of an affiliation agreement with the University of Alberta. The affiliation agreement was endorsed by the Board of Governors at its 5 March meeting. The agreement formalizes the University's relationship with AMC. Visitors to the signing ceremony could also tour the facilities in the Newton Research Building. Here, chemistry student John Crabtree, at the microscope, engineer Tran Tran, at the far end, and Madhu Krishnaswamy work in the photolithography laboratory, used in the manufacture of integrated circuits. AMC is involved in the design and application of microelectronics technology.

University celebrates 40th anniversary of the awarding of its first PhD degree

Clayton Person went on to chair the Genetics Department and earn Order of Canada

In 1953, Andrew Stewart was the University President. Walter Johns was the Dean of Arts and Sciences. Queen Elizabeth was crowned queen of the Commonwealth. Shirley Stinson was just finishing her nursing degree at this University. And Clayton Person had just earned his PhD in Plant Science, the first PhD ever awarded at this University.

This year the University is marking that anniversary.

Dr Person, a warm and gentle man, went on to do postgraduate work at the University of Lund, Sweden, before being employed by Agriculture Canada in Winnipeg. But the academic world beckoned, and he returned to the University of Alberta in 1961 to lead the newly created Department of Genetics. After laying the foundations for the department, he moved to the Department of Botany at the University of British Columbia. There he stayed until his retirement in 1988.

According to AJF Griffiths, a colleague at the Department of Botany at UBC, Dr Person had an exceptional analytical talent. But he was the quintessential "all-rounder", who had

interests in all areas of science. He was best known in Canada, however, for his work on the genetics of host-parasite interactions. In fact, for three decades he was a dominant figure in Canadian genetics.

He was recognized across the country for that work. He was elected Fellow of the Royal Society of Canada in 1971, Fellow of the American Phytopathological Society in 1981, received the British Columbia Science Council Gold Medal in 1981, the Genetics Society of Canada Award of Excellence in 1982, the Flavell Medal of the Royal Society of Canada in 1982, and was awarded the Order of Canada in 1987.

Dr Person was born in Regina in 1922 to parents who immigrated from Sweden. He grew up on the prairies during the Depression and served with the Royal Canadian Navy in the Second World War. He was a member of the Canadian force that landed on the beaches of Dieppe.

He returned from the war to take up his studies at the University of Saskatchewan, where he earned a BA and MA.

Dr Person died 1 September 1990.

After a thorough study of current and required printing, photoduplicating and document management services on campus, a University task force recommended the closure of Printing Services and the development of a delivery model based on a partnering relationship with one or more printing suppliers in the Edmonton area, Dr Stanford explained to Deans, Directors and Department Chairs earlier this month.

The rally was attended by several municipal and provincial politicians, representatives of labour organizations, and a spokesperson from the Michener Park Community Association.

English Department organizes conference of Jane Austen Society of North America

Record turnout expected

This year's conference of the Jane Austen Society of North America (JASNA) is the first to be organized and coordinated by a university. In view of the deluge of registrations, that institution—the University of Alberta—could be starting a trend.

There's never been more than 400 delegates at any of the previous 14 JASNA conferences (250 people were at Santa Monica last year), and 520 delegates are already booked into the Chateau Lake Louise, say convenors Juliet McMaster and Bruce Stovel, both of the Department of English. Dr Stovel attributes the conference's drawing power to the program which includes, for the first time, a musical component; to keynote speakers Margaret Drabble, Elaine Showalter and Isobel Grundy; and to the setting ("You don't need to promote Lake Louise. It sells itself.")

"At this conference," Dr McMaster advises delegates, "plan on pleasures physical, aesthetic and gustatory, as well as literary!"

The conference, which will be held 7 to 10 October, has been awarded funding by the GFC Conference Funds Committee and by the Social Sciences and Humanities Research Council of Canada. Of the conference's many organizational and promotional details, Dr McMaster says, "Lots of people have involved themselves with great zest." She and Dr Stovel make particular mention of students Karys Van de Pitte, the conference's secretary-treasurer, Mary Beth Wolicky, who's looking after negotiations with the Chateau Lake Louise, Martin Friedrich, who designed the registration form, and Carmen Holtner, who produced the conference logo.

The dissemination of conference details to the Society's 3,300 members, about 85 percent of whom are in the United States, constituted the largest mailing ever done by the Department of English.

Part of Austen's appeal, Dr McMaster believes, lies in her never having produced the "loose, baggy novel of Victorian times." Everything in her six novels was very keenly honed and people love to explore them, Dr McMaster said.

Some of what is written and said about Austen is standard, but the body of criticism does keep advancing, for example, the feminist approach to reading her, Dr McMaster pointed out.

Persuasion, Austen's last and most romantic novel, is the focus of the conference's program, with topics including the Jane Austen Consumer Guide, the illustrations of *Persuasion*, and comparisons of Jane Austen

CNS's new Director is Will English

Will English has been appointed Director of Computing and Network Services, effective 1 July.

Currently Manager, Technology Directions (CNS), English has been with the University of Alberta since March 1975. He has filled a range of managerial positions; most recently, he held responsibility for the development of a Technology Plan for CNS's new strategic plan.

In making the announcement of English's appointment, Lois Stanford, Vice-President (Student and Academic Services), described him as a consensus builder and an individual very much committed to the current direction of planning for CNS.



with Anne Tyler and Sir Walter Scott. Drabble, best-selling British novelist and Jane Austen scholar, will present fiction with a Jane Austen cast; Professor Grundy, Tory Professor at the U of A and a specialist in women's writing, will speak on "*Persuasion: The Triumph of Cheerfulness*"; and Dr Showalter of Princeton University, author of *A Literature of Their Own*, will explore "Retrenchments." Topping off the individual presentations and group discussions will be two performances of "An Accident at Lyme," which, Dr McMaster says, will capture much of the essential mood of *Persuasion*. "It has been performed with success simply as reading, voices, and a piano accompaniment. But since there has never been a full production, this will be a world premiere."

Stephen Heatley, a local director who is also a sessional lecturer in the Department of Drama, is casting a mixture of professional and amateur performers for the 90-minute production, with many of them expected to be current and former Drama students.

The conference is also relying on the support of the Edmonton chapter of JASNA. It was established in January 1992 and has 170 members. "There's a good, strong local following and about 80 percent of the members are from the general public," says Dr Stovel. The chapter meets at the Main Library on the fourth Saturday of each month. There are readings from the novel in hand, discussion groups and a "discovery session." Paper presentations are being worked into the meetings, with Gary Kelly (English) and Professor Grundy being the first presenters.

Membership in the chapter is not limited to residents of Edmonton; individuals from Fort St. John, B.C., Onoway, Rocky Mountain House and Calgary are among the "Janeites." (Additional information on the chapter may be obtained by calling Patricia Gour at 487-1119.)

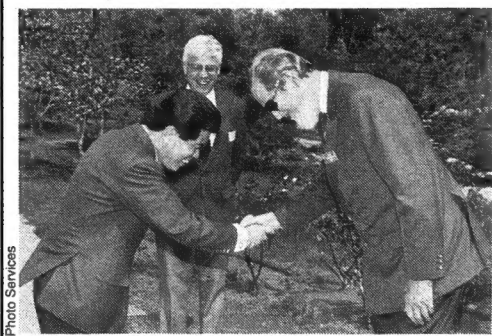


Photo Services



Photo Services

... and addressed a gathering of University officials and staff that included Board of Governors Chair Stan Milner, Vice-President (Research) Martha Piper, and former President, Myer Horowitz. President Kurimoto planted two may day trees in honour of his father and mother, Yuichi and Shizu Kurimoto. Yuichi Kurimoto (BA 1930) always regarded the four years at the University of Alberta as the most formative years in his education. When he founded an educational institution of his own, Nagoya University of Commerce and Business Administration, he adopted the green and gold of the U of A as the school colours. For his outstanding efforts in promoting private education, Dr Kurimoto was twice awarded the Medal of Merit by the Emperor of Japan, once in 1963 and again in 1972. Shizu Kurimoto, also an outstanding educator, was one of the founders of the All Japan Women's Voters League that was organized after World War II. The Kurimoto Japanese Garden, located within the Devonian Botanic Garden, is named after Yuichi Kurimoto. It symbolizes the friendship between Canada and Japan.



On 8 June, the second day of Spring Convocation, the University of Alberta awarded an honorary degree to President Kurimoto.

EVENTFUL TIMES FOR PRESIDENT KURIMOTO

At a tree planting ceremony at the Kurimoto Japanese Garden on 6 June, Hiroshi Kurimoto, President of Nagoya University of Commerce and Business Administration, renewed acquaintances with Chancellor Sandy Mactaggart, right, and President Paul Davenport ...

Chemistry's John Vederas, Geology's Roger Morton cited for proficiency in teaching

The recipients of the 1992-93 Faculty of Science Award for Excellent Teaching are John Vederas (Chemistry) and Roger Morton (Geology).

Since being appointed to the faculty of the University of Alberta in 1977, Dr Vederas has taught numerous undergraduate and graduate courses at all levels, but he has most often been involved in one of his favourite lecture sections, first year introductory organic chemistry. His attempts to challenge students and stimulate interest include frequent lecture demonstrations, anecdotes, and new learning tools such as computer-generated slides which are viewed with polarized glasses to give a three-dimensional image of molecules under discussion. (The slides were developed with the aid of a University Teaching Grant in 1990-91.) This approach has paid off in student evaluation comments such as:

"Dr Vederas was my best professor. He was interesting and very enthusiastic and made chemistry (a class I didn't enjoy from past experience) a field I may consider majoring in."

"I think Dr Vederas should be rewarded immensely for his contribution to the future scientists of tomorrow."

"Vederas was awesome and I enjoyed attending his lectures. He always demanded complete attention from his students and I admire his enthusiasm for the course material."

Sometimes the lecture demonstrations prove rather startling. On one occasion, too much reagent was used by Dr Vederas in a chlorination of acetylene, and the reaction proceeded with such explosive violence that his hands shook for the remainder of the lecture and he was hardly able to write on the blackboard. Since that time, this reaction is demonstrated by a graduate student wearing special protective gear ("they are much more careful and conservative with reagents").

Over the last 10 years, 18 graduate students have completed their degrees (14 PhD and 4 MSc) under the supervision of Dr Vederas, and three of these have won Andrew Stewart Graduate Prizes for excellence from the University. Almost all of his former graduate students and postdoctoral fellows currently hold research positions at universities or in the pharmaceutical industry. "I strongly believe that the success of

graduate teaching is best seen from the research results and long-term career success of former graduate students," Dr Vederas says.

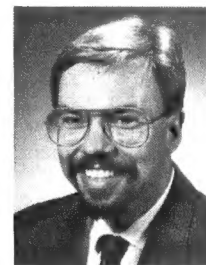
His current research centres on the sequence of steps by which nature assembles biological molecules.

Roger Morton was appointed to the Faculty of Science in 1966 as Professor of Geology, specializing in the geology and mineralogy of ore deposits. He had previously taught at the Universities of Nottingham and Oslo.

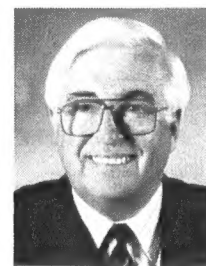
During the past 25 years Dr Morton has taught a plethora of undergraduate and graduate courses in mineralogy, economic geology and introductory geology (including paleontology). Indeed, he says, "You should be able to teach any one of the junior level courses in your department. If you don't have a grasp on the fundamental concepts of your science, you should get the title of 'Pretender' not 'Professor.'"

For the past few years Dr Morton has been in charge of both the popular introductory course in geology and of the senior course in economic geology. His broad international experience of academia and of the world of industrial and applied geology allow him to bring a unique flavour to his lectures, both in the University and in the field. Above all, Dr Morton tries to instill an entrepreneurial spirit into his students.

Dr Morton is a co-author of the book



John Vederas



Roger Morton

Edmonton Beneath Our Feet, which is being published to mark the occasion of the Geological Association of Canada's annual meeting which was held at this University last month.

On his study leaves from the U of A he has been visiting professor at the University of Hamburg, the University of Nancy, France, Rhodes University, the University of Johannesburg and the University of Oslo.

Two professors win Edmonton seats

Mike Percy and Don Massey will sit in Liberal opposition benches

Two University of Alberta professors won seats in the provincial election held on 15 June. Both will sit as Liberal opposition members.

Mike Percy (Economics) will represent the constituency of Edmonton Whitemud and Don Massey (Elementary Education) will represent Edmonton Mill Woods.

The constituency in which the University is situated was also taken by the Liberals. Edmonton Strathcona was formerly held by New Democrat Barrie Chivers, who lost his seat to Al Zariwny, a 49-year-old lawyer whose practice is in Old Strathcona.

Dr Massey has sat as a trustee and chair of the Edmonton Public School Board for many years; Dr Percy has been a longtime commentator and researcher on the Alberta and Canadian economic scene. He was touted as a possible finance minister in a Laurence Decore-led government.

Olive Dickason, Professor Emeritus of History, was unsuccessful in her bid to win Edmonton Rutherford for the New Democrats. Voters in that constituency re-elected popular Liberal incumbent Percy Wickman.

Roost under repair

The birds have gone (to Education) South. At least a dozen sparrows' nests are embedded in the west and east classroom wings and they're being treated with care as workers secure the face panels with additional anchorage and replace the three 10'x10' precast concrete face panels that fell to the ground last October.

"It's not a renovation but a very essential safety-oriented job," says Dan Pretzlaff, Building Trades Superintendent, Physical Plant. All work to the 30-year-old building must be completed by the start of the fall term, he says.

Meanwhile, Stadium Car Park is being readied for resurfacing and the application of a waterproof coating on the floor of each level. The repairs are aimed at preventing deterioration caused by salt and water seeping into the concrete.

Preparation work, which includes shock blasting to clean the existing concrete surface, began 21 June and will be followed by a cleanup and the actual coating process. The workday is from 8 am to 5 pm for 11 weeks; no work will be done on weekends.

There will be minimal disruption to the traffic flow and Pretzlaff says he anticipates no major disruptions for campus or the Windsor Park community. He also notes that all enquiries about the project should be directed to 492-4261 or 492-4833.

Franklin expedition and Owen Beattie's work inspire dramatists to create score

Inspired by the ill-fated 1885 Franklin expedition to find the Northwest Passage and U of A anthropologist Owen Beattie's 1986 attempts to determine Franklin's fate, two graduates of the MFA program have created a powerful piece of theatre.

"In the Teeth of the Shore/Standing Close" is a stunning combination of dance, image, and sound, says playwright Thomas Nerling, who, along with fellow MFA graduate David Skelton, created the original score.

"I was interested in the Franklin expedition; it's part of our mythology," says Nerling, who read Dr Beattie's book, *Frozen in time: unlocking the secrets of the Franklin expedition* and Inuit stories before going to work on "Aglooka," Theatre of the New Heart's 1992 Fringe hit, upon which the "In the Teeth" score is based.

The work will be performed at the City Hall reflecting pool, at 10 pm, 2 to 7 July. It's being staged as part of The Works Visual Arts Festival because of its radical visual impact.

KOREAN VISITORS SEEK LANGUAGE PARTNERS

Nineteen Korean English-language teachers from Kangwan-do province will be studying at the University of Alberta from 12 July until 8 August. They are very interested in meeting Canadians and sharing a cross-cultural experience.

Anyone interested in having a Korean spend a weekend with them (the evening of 23 July to the evening of 25 July), or serving as a language partner for 12 hours during their stay, or willing to be interviewed on the subject of their choice, is asked to call Bethany Ellis at 433-6448.

Planning and Development Projects Report

The following report, prepared by Planning and Development, provides an overview of the major University of Alberta projects in progress.

Program planning

General Space Programs (GSP): Comprehensive GSP and accommodation plans are completed and approved for the HM Tory Building and Medical Genetics. A similar review is almost complete for the Humanities Centre, which also involves the potential relocation of Religious Studies, Canadian Studies, and Women's Studies into the building. GSPs and accommodation plans have been completed for two department mergers within the merged Faculties of Agriculture-Forestry and Home Economics (the Department of Food Science and Nutrition and the Department of Human Ecology). Review of space program requirements and accommodation options will start in the next few months for several other units within the Faculty of Agriculture-Forestry and Home Economics so that a long range space plan for the Printing Services, General Services, and Agriculture-Forestry Centre can be devised. A GSP is currently under way for the Department of Physical Plant.

Detailed Space Programs (DSP): A GSP and DSP have been completed for the Department

of Animal Science's large animal surgery program to be accommodated in an addition to the Metabolic Research Unit's facility at the Ellerslie Farm. Also completed is a GSP for Campus Security Services and Parking Services. A DSP is under way for Parking Services for possible relocation and an accommodation plan is being prepared for Campus Security Services.

Planning

Exterior sign guidelines: In cooperation with organizations of the greater campus area and the City of Edmonton, a comprehensive exterior sign program is being prepared to improve wayfinding and access for visitors, students, and staff. Four levels of sign information requirements have been identified: campus regional signs at major gateways to the city; campus perimeter signs; campus interior (pedestrian) signs; and individual facility signs. Guidelines will describe criteria for location and design of exterior signs.

Devonian Botanic Garden: Planning is under way to update the Long Range Plan produced in 1978. A first draft is under review; it documents existing conditions and broadly outlines development proposals for the future. Workshops will be conducted soon with staff and volunteers of the Garden to establish fu-

ture program direction, and in turn, development alternatives for the next five to ten years.

Facility evaluations: As part of an ongoing process of assessing the physical and functional condition of campus buildings, the Departments of Planning and Development and Physical Plant have been working together to evaluate various buildings on campus.

Laboratory Animal Services: A long range strategic plan is under way to guide future development of laboratory services for all on- and off-campus University facilities.

Parks and Recreation trails: The City of Edmonton Parks and Recreation Department has prepared a concept plan for trail development in the river valley and ravine system for the western section of the city. The plan affects two segments of undeveloped University property. One is located along the North Saskatchewan River north of the main campus and the other in the Whitemud Creek ravine on the western edge of the West 240 property. The University has recently approved easement requests from the city for both properties. Trail improvements along the North Saskatchewan River should start in late summer.

South Light Rail Transit: In cooperation with organizations of the south campus area, surrounding communities, and the City of Edmonton, the SLRT III Steering Committee has conducted an investigation of possible locations for vertical alignment of future LRT development south of University Station. Four possible locations along the western edge of 114 Street have been considered for the required portal: south of University Avenue; immediately north of University Avenue; across the street from the emergency entrance to the Walter Mackenzie Centre; and roughly the mid-point of the Jubilee Auditorium parking lot along 114 Street. The Steering Committee, in cooperation with City Transportation, has forwarded a recommendation to City Council for its consideration.

Renovations and development

Eastpoint (Auxiliary Library Stacks):

Eastpoint is an off-campus facility that is being designed to hold Library books that are used infrequently, but that will remain readily available at a remote site. The project is now at the construction tender stage.

Glaxo Heritage Research Institute: Through the joint efforts of government and industry, a major viral pathogenesis laboratory is under construction in the Heritage Medical Research Centre. Completion is anticipated by October 1993.

Timms Centre for the Arts: Construction of the Centre recently began on the site south of the Fine Arts Building and east of 112 Street. The Centre is designed to house theatre facilities of the Drama Department that were previously housed in Corbett Hall. Construction will be most disruptive during the summer months as a result of startup activities and excavation. The building is scheduled to be completed in early 1995.

Animal research facilities: Upgrading of animal research facilities in the Medical Research Building is nearing completion.

Space planning and management

Several space planning and management activities are currently being addressed as part of the ongoing review of unit space requests, space alteration proposals, overall campus space utilization, and the study of long-term space allocation possibilities. The most noteworthy projects at this time include: space occupancy review of the Printing Services Building; space occupancy review of University space in SUB, with a view to developing a single location for all Student Services; and development of available space and relocation of units in the Biological Sciences Centre.

If you wish to obtain additional project information, please contact Planning and Development at 492-4966.

POSITIONS

The University of Alberta is committed to the principle of equity in employment. The University encourages applications from aboriginal persons, disabled persons, members of visible minorities and women.

ACADEMIC STAFF

INSURANCE AND RISK MANAGEMENT POSITION (HALF TIME)

Due to the temporary absence of a staff member we are seeking an individual to perform risk management and insurance project work on a half-time basis for the period 19 July 1993 to 31 March 1994. Reporting to the Associate Vice-President and Comptroller, the incumbent will be responsible for the review, analysis and implementation of recommended changes for selected policies and procedures in the areas of insurance, risk management and general administration. The incumbent will also provide insurance expertise to the existing insurance and risk management staff as required.

Qualifications of the applicant include competency in property and liability insurance and risk management. The applicant should possess highly developed interpersonal and writing skills. Some PC experience would be an asset (i.e., Wordperfect, LOTUS).

Salary range: Minimum salary \$25 per hour commensurate with qualifications.

Deadline for applications: 9 July 1993.

Please apply in confidence to: Fiona Chesney, CA, CRM, Treasurer and Risk Manager, Office of the Comptroller, 341 Administration Building, University of Alberta, Edmonton, Alberta T6G 2M7

PROGRAM HEAD, MATHEMATICS RESOURCES; ACADEMIC SUPPORT CENTRE

Mathematics Resources is one of three programs comprising the Academic Support Centre, the others being Effective Writing Resources and Learning Resources.

Responsibilities: The Program Head administers Mathematics Resources, which includes a computer lab, and is responsible for the teaching of a variety of noncredit courses.

Qualifications: The candidate must be an excellent, committed teacher who is able to communicate well with students with varying degrees of ability in mathematics. He or she must have a detailed knowledge of and experience in teaching first-year university mathematics courses. The ability to work well with others and to undertake new initiatives is also essential.

Term: nine-month contract commencing 1 August 1993 with the possibility of renewal.

Salary: \$2,500 to \$3,000 per month, depending on qualifications and experience.

Closing date: 9 July 1993.

Send résumés to: Dave Clyburn, Academic Support Centre, 102 Athabasca Hall, University of Alberta, Edmonton, Alberta T6G 2E8.

SUPPORT STAFF

To obtain information on support staff positions, please contact Personnel Services, Assiniboia Hall, telephone 492-5201. You can also call the Job Information Line at 492-7205 (24 hours) or consult the weekly Employment Opportunities Bulletin.

MEDICAL LASER POSITION

An academic track position is available in the Department of Electrical Engineering for a person interested in laser phototherapy. Areas of interest will include modelling light distribution in tissues, and interactive treatment planning in animal tumor models. Applicants will have either a BSc or higher degree in Engineering, Physics, or Computer Science. Experience in the biological sciences would be an asset.

Interested applicants should provide a résumé of academic experience and research interests to: Dr John Tulip, Department of Electrical Engineering, Room 136, Civil/Electrical Engineering Building, University of Alberta, Edmonton, Alberta T6G 2G7.



Now that's a big hole! Work is well under way on the Timms Centre for the Arts on 112 Street. The general contractor is expected to be done by 1 September 1994. Specialized theatre equipment will then be installed in the two-storey building.

Ritter named Acting Manager, Special Funds and Research Accounting

Ronald Ritter will assume the position of Acting Manager, Special Funds and Research Accounting, on 1 July. The announcement was made by Louis Jamernik, Associate Vice-President and Comptroller.

Ritter joined the University's Internal Audit Department in 1989 and has been its manager for the past three years. He plans to build on the working relationships between

the Office of the Comptroller and researchers and improve upon the level of service provided to researchers and granting agencies.

Also on 1 July, Allan Pedden will become Acting Manager of Internal Audit. Pedden, who has been with Internal Audit since 1990, will continue to provide consultative services to the University community in the areas of accounting, financial and operating systems and controls.

TALKS

ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH

29 June, noon

Andres Lopez Bernal, University Lecturer, Nuffield Department of Obstetrics and Gynaecology, John Radcliffe Hospital, Oxford, UK, "Endocrine Control of Parturition." 2J4.02 Mackenzie Health Sciences Centre. Hosted by the Perinatal Research Centre.

29 June, 2 pm

Sue Anne Moyer, Department of Immunology and Medical Microbiology, Health Sciences Center, University of Florida, Gainesville, "RNA Synthesis of Negative Strand RNA Viruses." Sponsor: Medical Microbiology and Infectious Diseases. 2J4.02 Mackenzie Health Sciences Centre.

HISTORY

28 June, 7 pm

David Marples, "Russia: Toward Democracy or a New USSR?" Rossdale Community League, 10135 93 Avenue.

EVENTS

EXHIBITIONS

MCMULLEN GALLERY

Until 3 July

"Contributions from the Shadow."

Gallery hours: Monday to Friday, 10 am to 4 pm; Saturday and Sunday, 1 to 4 pm, evenings subject to availability of volunteers. Information: 492-8428 or 492-4211. Mackenzie Health Sciences Centre.

MUSIC

DEPARTMENT OF MUSIC

28 June, 8 pm

Doctor of Music candidate recital—Stillman Matheson, organist. All Saints' Cathedral, 10039 103 Street.

ACCOMMODATIONS AVAILABLE

VICTORIA PROPERTIES - Experienced, knowledgeable realtor with Edmonton references will answer all queries, and send information. No cost or obligation. Call (604) 595-3200, Lois Dutton, Re/Max, Ports West, Victoria, BC.

MICHENER PARK - Two bedroom rowhouses and apartments for rent in University residence located in southwest Edmonton. Excellent bus service to University, utilities included. All enquiries welcome, 492-7044.

RENT - Attractive executive home, Strathearn Drive. Spacious studio, view, furnished. Sabbatical 1993 - 1994. Phone 469-4992.

ST ALBERT - Executive lifestyle, family neighbourhoods, extensive parks and recreational facilities, just a short drive from the University. For ethical, enthusiastic service, call Ginny Morgan at Royal LePage Realty, 458-5595.

RENT - Garneau, six bedroom bungalow. Lots of parking, two bathrooms, two fridges, washer and dryer. \$1,500/month. Available 1 July, 436-7371.

RENT - Close, Grandin Station, one bedroom highrise. June possession, \$550. 479-6853/478-9060, leave message.

RENT - Glenora. Large, bright executive home, 3,200', five bedrooms, three baths, two fireplaces, double attached garage. Quiet landscaped yard. Large main, upper floor decks. Hot tub, new kitchen, appliances. 452-4976.

SALE - Belgravia, 1,300' semi-bungalow. Three bedrooms, south yard, hardwood. Excellent location, \$137,500. Ed Lastiwka, Royal LePage Realty, 446-3800, 437-7480.

SALE - House in Belgravia, quiet crescent, 15-minute walk to central campus. Renovated, four/five bedrooms, family room (fire-

place), eat-in kitchen, deck. 133' X 55' lot. Heated garage. 436-7363, no agents.

RENT - North Windsor Park. Furnished, two plus two bungalow. Very spacious, hardwood floors throughout. Quiet, treed lot. Available August/September (negotiable), one year. \$1,400/month, 439-0467.

RENT - Furnished four bedroom executive house for 1993 - 1994 school year. Close to Edmonton Southgate, 438-4416.

RENT - 1,140' bungalow near ravine. Quiet, mature neighbourhood, close to the University, 481-9726.

SALE - By owner. West end, three bedroom, townhouse. New lino, new paint. Close to shopping and bus to University. \$69,900. Rob, 489-6321.

RENT - Glenora. Modern, one bedroom suite in hillside bungalow/ravine. Fully furnished, utilities included. Private patio. Responsible adults only. No pets. \$500/month, \$200 damage deposit. Available 1 July, 452-1447.

RENT - University area, four bedroom house. Formal living, dining rooms, family room, fireplace. Developed basement, double garage. 15 August, lease, \$1,800/month. Schaaf Realty, 468-6307.

RENT - Downtown, executive condo with river view. Totally renovated, two bedrooms, marble floors, hardwood too! 1,380', sit-down shower, two balconies. \$1,200/month. Immediate. Western Relocation, 434-4629.

RENT - Great family home, Meadowlark Park. Four level split, four bedrooms. Two fridges, double garage, 15 minutes bus to University. One year, \$1,100/month, 1 August. Western Relocation, 434-4629.

RENT - Terrace Heights, 6811 98A Avenue. Spacious three bedroom, hardwood floors. Fully furnished basement, two bathrooms, four appliances. Garage, fenced yard, big trees. 1 July. \$950/month. Western Relocation, 434-4629.

RENT - Spacious log home. Peaceful acreage at Island Lake, Athabasca. Three bedrooms, large kitchen, big loft, soundproof den, garage, corral. \$850/month. 1/4 mile to highway. Western Relocation, 434-4629.

RENT - Prestigious Laurier, spacious, incredibly sunny, custom-built three bedroom home. Quick University access. Double attached garage, all appliances, fenced yard, fireplace. 1 August, one year. \$1,200. Western Relocation, 434-4629.

SALE - Parkallen, two bedroom bungalow. Excellent location, cul-de-sac, pie lot. Main floor totally upgraded. Downstairs, three piece bath, bedroom. Single garage with carport. Sherry Mailo, Re/Max, 438-7000.

SALE - Riverbend, traditional four bedroom, two-storey, 2,300'. Excellent location, cul-de-sac, exceptional pie-shaped lot. Sherry Mailo, Re/Max, 438-7000.

SALE - Grandview, traditional two-storey, totally upgraded. Hardwood floors, oak kitchen. Main floor family room. Fully finished basement. Sherry Mailo, Re/Max, 438-7000.

RENT - Panoramic river valley view, 2,600' executive highrise, \$1,500/month. Two bedrooms, den, sunroom. Sherry Mailo, 438-7000.

RENT - Spacious three bedroom house with sunporch, five appliances, Westmount. Five minutes to University, easy access to buses. Nonsmokers, no pets. \$700/month. 454-3513.

WANTED - Neat M/F professional to share 2,200' five bedroom home near West

Edmonton Mall. Seven appliances, three full baths, near park. \$600/month includes utilities and maid service. Call 481-4174.

RENT - Near University, furnished one bedroom highrise condo, 12th floor, 1 September, \$800 includes utilities, parking, laundry, 433-7165.

RENT - Charming two bedroom, fully furnished home in McKernan, 25 June - 31 August 1993. Nonsmokers, references, \$850. 434-8179.

RENT - Glenora, easy University access bus/car. Three bedrooms, two bathrooms, garage, appliances. Partly furnished. Nonsmokers preferred. August 1993 - August 1994. \$900/month. 452-1311 phone/fax.

SALE - Beautiful two bedroom, 1,140' Riverwind condo. Huge balcony, two baths, upgrades throughout. \$176,500. By owner. 432-1289 before 10 pm.

SALE - \$109,500 Parkdale bungalow. Easy access to University, downtown. Good starter, investment. Single garage, fenced yard, fireplace, hardwood. Florence Thompson, Spencer Realty, 435-0808.

SALE - Premium Saskatchewan Drive highrise. Huge windows, sensational view, enclosed balcony. Open floor plan, designed for entertaining. Seven appliances, including washer and dryer. A-1 condition. Florence Thompson, Spencer Realty, 435-0808.

RENT - Renovated, 1,600' three bedroom home in Old Strathcona. 1 July. \$995/month, Call 432-7032.

SALE - Windsor Park, Saskatchewan Drive. Fantastic view, beautiful huge lot, 75' X 183'. Custom-built bungalow, fully developed. Two double garages. Walk to University. Chris Tenove, Spencer Realty, 435-0808, 433-5664.

SALE - Grandview, custom-built bungalow. Three bedrooms, three baths. Well maintained, great location, facing park. Chris Tenove, Spencer Realty, 435-0808, 433-5664.

SALE - One year old top floor, two bedroom, two bath condo. Very attractive, quiet home. Covered parking, five appliances, gas fireplace. Six blocks to University. Jack Bawden, Royal LePage, 437-7480.

SALE - Lovely 1,430' two bedroom, two bath, 14th floor condo. Save time! Just one block to campus. Two underground parking stalls, air conditioning, six appliances. Jack Bawden, Royal LePage, 437-7480.

RENT - Main floor, Millcreek bungalow. Close to pool, ravine, University. Newly renovated. Five appliances, three bedrooms, double garage. Blinds, hardwood, berber carpet. 1 July. \$775 plus utilities. No pets. 988-9762.

RENT - North Windsor Park, very attractive three bedroom bungalow plus basement. Partly furnished, newly renovated, very spacious. Double garage. Walk to University. Available 1 August. Call 433-8471.

RENT - Executive, fully furnished one bedroom highrise condo. River view, pool, gym, etc. \$1,100/month. 434-1752.

RENT - 11255 78 Avenue, bright, clean 1 1/2-storey house. Four appliances, hardwood floors, south-facing backyard, gardens. Damage deposit, lease, \$950/month including utilities. Nonsmoking, no pets. Available 15 July. 437-7251.

RENT - Executive home near University. Fully furnished, 3,000', air conditioning, nine appliances. Double garage. \$1,500/month. Call Steve, 454-3819.

RENT - Shared accommodation. Older home, hardwood floors, washer, dryer, park-

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